

Lee

1645

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/305,984A

DATE: 02/10/2000
TIME: 14:53:04

Input Set: I305984A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

P.5

1 <110> APPLICANT: Novak, Rodger
2 Toumanen, Elaine
3 <120> TITLE OF INVENTION: NOVEL ANTIBIOTICS AND METHODS OF USING THE SAME
4 <130> FILE REFERENCE: 1340-1-016N
5 <140> CURRENT APPLICATION NUMBER: US/09/305,984A
6 <141> CURRENT FILING DATE: 1999-05-05
7 <150> EARLIER APPLICATION NUMBER: 60/084,399
8 <151> EARLIER FILING DATE: 1998-05-06
9 <160> NUMBER OF SEQ ID NOS: 54
10 <170> SOFTWARE: PatentIn Ver. 2.0
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13 <212> TYPE: DNA
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17 gcaagagact ataat 75
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19 <211> LENGTH: 25
20 <212> TYPE: PRT
21 <213> ORGANISM: Streptococcus pneumoniae
22 <400> SEQUENCE: 2
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24 1 5 10 15
25 Asp Lys Arg Pro Ala Arg Asp Tyr Asn
26 20 25
27 <210> SEQ ID NO 3
28 <211> LENGTH: 75
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Description of Artificial Sequence: Encodes
33 modified Streptococcus Pneumonia peptide
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36 gcaagagact ataat 75
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39 <212> TYPE: PRT
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42 <223> OTHER INFORMATION: Description of Artificial Sequence: Modified
43 Streptococcus Pneumonia peptide
44 <400> SEQUENCE: 4

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47      Asp Lys Arg Pro Ala Arg Asp Tyr Asn
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52      <213> ORGANISM: Artificial Sequence
53      <220> FEATURE:
54      <223> OTHER INFORMATION: Description of Artificial Sequence: Encodes
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58      gcaagagacg ctaat                                     75
59      <210> SEQ ID NO 6
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61      <212> TYPE: PRT
62      <213> ORGANISM: Artificial Sequence
63      <220> FEATURE:
64      <223> OTHER INFORMATION: Description of Artificial Sequence: Modified
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70          20              25
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74      <213> ORGANISM: Streptococcus pneumoniae
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79      <212> TYPE: PRT
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85      <211> LENGTH: 33
86      <212> TYPE: DNA
87      <213> ORGANISM: Streptococcus pneumoniae
88      <400> SEQUENCE: 9
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91      <211> LENGTH: 11
92      <212> TYPE: PRT
93      <213> ORGANISM: Streptococcus pneumoniae
94      <400> SEQUENCE: 10

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99  <212> TYPE: DNA
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103      aaaaggccag caagagacta taat                                     84
104 <210> SEQ ID NO 12
105 <211> LENGTH: 28
106 <212> TYPE: PRT
107 <213> ORGANISM: Streptococcus pneumoniae
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109      Met Glu Phe Met Arg Lys Glu Phe His Asn Val Leu Ser Ser Gly Gln
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111      Leu Leu Ala Asp Lys Arg Pro Ala Arg Asp Tyr Asn
112      20              25
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115 <212> TYPE: DNA
116 <213> ORGANISM: Streptococcus pneumoniae
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120      cgtcaggaaa ccattgggtca aaaggcaaca gccattgccc agtcacctaga agggaaagat 180
121      aggagagta tcgagcaagt gttagacttg tattcccgaga ctagtgatat caaggggacc 240
122      gtcaaagggt agatgaccga ggacaagtta gaagtcaagg acagtcttcc tctggacaca 300
123      gaccgccaga caacctctct ctttattgag gagcgcgagg tgaaaacgca agacgggtgg 360
124      actatgattc tccagtttct agcttccatg gatttacaaa aggaagcgga gcaaatcagt 420
125      ctccagtttc ttccctatac cttgctggcc tcctttctga tttccctttt ggtggcctac 480
126      atctacgctc ggactattgt tgcaccgatt ttggaaatca agcgggtgac ccgtcggatg 540
127      atggacctgg attcccaagt gcgattgcgc gtggattcta aggatgagat aggtaatctc 600
128      aaggaacaaa tcaatagcct ctaccagcat ctcttgactg ttattgcgga cttgcatgaa 660
129      aagaatgaag ccattctcca gctggagaag atgaagggtc aattcctacg aggagcttct 720
130      catgaattga aaacaccgct ggctagtttg aaaatcctaa tcgaaaatat gagagagaat 780
131      atcggtcgtt ataaggatag agaccagtat ctgggagttg ccttggggat tgtggatgaa 840
132      ctcaatcacc atgttctgca gatactttcc ctctcttctg tgcaggaatt gcgagatgat 900
133      agggaaaaca ttgacctcct ccagatgacg caaaatctgg tcaaagatta tgccttgcta 960
134      gccaaaggaaa gagagctcca gatagacaat agtttgaccc atcagcaggc ttatctaacc 1020
135      ccatcagtta tgaagttgat tctttctaat ctcatcagca atgccattaa gcactctgtt 1080
136      ccagggtggct tagttcgaat tggagaaaga gaaggagaac tttttatcga aaatagctgt 1140
137      agctcagagg aacaagaaaa actagccagc tctttttctg acaatgccag tcgcaaggtc 1200
138      aaggggtctg gtatggggct ctttgtgggt aagagtctat tagaacatga aaaattagct 1260
139      tatcgtttcg agatggagga gaatagttta accttcttta tagattttcc aaaagtcgtc 1320
140      caagactag                                     1329
141 <210> SEQ ID NO 14
142 <211> LENGTH: 442
143 <212> TYPE: PRT
144 <213> ORGANISM: Streptococcus pneumoniae

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/305,984A

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145 <400> SEQUENCE: 14
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149 20 25 30
150 Phe Pro Ser Thr Tyr Leu Ser His Arg Gln Glu Thr Ile Gly Gln Lys
151 35 40 45
152 Ala Thr Ala Ile Ala Gln Ser Leu Glu Gly Lys Asp Arg Gln Ser Ile
153 50 55 60
154 Glu Gln Val Leu Asp Leu Tyr Ser Gln Thr Ser Asp Ile Lys Gly Thr
155 65 70 75 80
156 Val Lys Gly Glu Met Thr Glu Asp Lys Leu Glu Val Lys Asp Ser Leu
157 85 90 95
158 Pro Leu Asp Thr Asp Arg Gln Thr Thr Ser Leu Phe Ile Glu Glu Arg
159 100 105 110
160 Glu Val Lys Thr Gln Asp Gly Gly Thr Met Ile Leu Gln Phe Leu Ala
161 115 120 125
162 Ser Met Asp Leu Gln Lys Glu Ala Glu Gln Ile Ser Leu Gln Phe Leu
163 130 135 140
164 Pro Tyr Thr Leu Leu Ala Ser Phe Leu Ile Ser Leu Leu Val Ala Tyr
165 145 150 155 160
166 Ile Tyr Ala Arg Thr Ile Val Ala Pro Ile Leu Glu Ile Lys Arg Val
167 165 170 175
168 Thr Arg Arg Met Met Asp Leu Asp Ser Gln Val Arg Leu Arg Val Asp
169 180 185 190
170 Ser Lys Asp Glu Ile Gly Asn Leu Lys Glu Gln Ile Asn Ser Leu Tyr
171 195 200 205
172 Gln His Leu Leu Thr Val Ile Ala Asp Leu His Glu Lys Asn Glu Ala
173 210 215 220
174 Ile Leu Gln Leu Glu Lys Met Lys Val Glu Phe Leu Arg Gly Ala Ser
175 225 230 235 240
176 His Glu Leu Lys Thr Pro Leu Ala Ser Leu Lys Ile Leu Ile Glu Asn
177 245 250 255
178 Met Arg Glu Asn Ile Gly Arg Tyr Lys Asp Arg Asp Gln Tyr Leu Gly
179 260 265 270
180 Val Ala Leu Gly Ile Val Asp Glu Leu Asn His His Val Leu Gln Ile
181 275 280 285
182 Leu Ser Leu Ser Ser Val Gln Glu Leu Arg Asp Asp Arg Glu Thr Ile
183 290 295 300
184 Asp Leu Leu Gln Met Thr Gln Asn Leu Val Lys Asp Tyr Ala Leu Leu
185 305 310 315 320
186 Ala Lys Glu Arg Glu Leu Gln Ile Asp Asn Ser Leu Thr His Gln Gln
187 325 330 335
188 Ala Tyr Leu Asn Pro Ser Val Met Lys Leu Ile Leu Ser Asn Leu Ile
189 340 345 350
190 Ser Asn Ala Ile Lys His Ser Val Pro Gly Gly Leu Val Arg Ile Gly
191 355 360 365
192 Glu Arg Glu Gly Glu Leu Phe Ile Glu Asn Ser Cys Ser Ser Glu Glu
193 370 375 380
194 Gln Glu Lys Leu Ala Gln Ser Phe Ser Asp Asn Ala Ser Arg Lys Val

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195      385      390      395      400
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197              405              410              415
198      Glu Lys Leu Ala Tyr Arg Phe Glu Met Glu Glu Asn Ser Leu Thr Phe
199              420              425              430
200      Phe Ile Asp Phe Pro Lys Val Val Gln Asp
201              435              440
202 <210> SEQ ID NO 15
203 <211> LENGTH: 657
204 <212> TYPE: DNA
205 <213> ORGANISM: Streptococcus pneumoniae
206 <400> SEQUENCE: 15
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208      acggattgtg gctatgaaac tattgaggca gcggacggtc aggaagctct ggagcaattt 120
209      tctagctatg aggtggccct ggttttactg gatatccaga tgcccaagct caacggctta 180
210      gaagtcctag ctgagattcg taaaaccagt caggttcctg tcttgatgtt gacagctttt 240
211      caagatgagg aatacaagat gagtgccttt gcctctttgg cagatggcta tctggaaaaa 300
212      cctttctccc tctccctttt aaaagtgagg gtggacgcga ttttcaagcg ctactacgat 360
213      acaggacgaa tcttttctta caaggatacc aaggtggact ttgaaagcta cagtgcgaagc 420
214      ctcgcaggtc aagaagtgcc tatcaatgcc aaagagttgg aaattctgga ctatctagt 480
215      aaaaatgaag gccgggcctt gactcgatct cagattatcg atgccgtctg gaaagcgaca 540
216      gatgaggttc cttttgaccg tgttattgat gtttatatca aggaattgcg gaaaaagcta 600
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220 <212> TYPE: PRT
221 <213> ORGANISM: Streptococcus pneumoniae
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225      Ser Asp Tyr Leu Thr Asp Cys Gly Tyr Glu Thr Ile Glu Ala Ala Asp
226              20              25              30
227      Gly Gln Glu Ala Leu Glu Gln Phe Ser Ser Tyr Glu Val Ala Leu Val
228              35              40              45
229      Leu Leu Asp Ile Gln Met Pro Lys Leu Asn Gly Leu Glu Val Leu Ala
230              50              55              60
231      Glu Ile Arg Lys Thr Ser Gln Val Pro Val Leu Met Leu Thr Ala Phe
232              65              70              75              80
233      Gln Asp Glu Glu Tyr Lys Met Ser Ala Phe Ala Ser Leu Ala Asp Gly
234              85              90              95
235      Tyr Leu Glu Lys Pro Phe Ser Leu Ser Leu Leu Lys Val Arg Val Asp
236              100              105              110
237      Ala Ile Phe Lys Arg Tyr Tyr Asp Thr Gly Arg Ile Phe Ser Tyr Lys
238              115              120              125
239      Asp Thr Lys Val Asp Phe Glu Ser Tyr Ser Ala Ser Leu Ala Gly Gln
240              130              135              140
241      Glu Val Pro Ile Asn Ala Lys Glu Leu Glu Ile Leu Asp Tyr Leu Val
242              145              150              155              160
243      Lys Asn Glu Gly Arg Ala Leu Thr Arg Ser Gln Ile Ile Asp Ala Val
244              165              170              175

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION US/09/305,984ADATE: 02/10/2000
TIME: 14:53:04

Input Set: I305984A.RAW

Line	? Error/Warning	Original Text
821	W "N" or "Xaa" used: Feature required	Asp Lys Arg Pro Ala Arg Asp Xaa Asn
859	W "N" or "Xaa" used: Feature required	Arg Lys Glu Phe His Xaa Xaa Xaa Xaa Xaa X
861	W "N" or "Xaa" used: Feature required	Lys Arg Pro Xaa Arg Asp Tyr
912	W "N" or "Xaa" used: Feature required	Met Xaa Xaa Xaa Xaa Xaa Asn Val Leu Ser X
914	W "N" or "Xaa" used: Feature required	Xaa Xaa Xaa Xaa Ala Xaa Xaa Xaa Asn